

## BIBLIOGRAPHY

- Abt, E, Sam, J. F., Gray, P., and Posnick Robin, L. 2018. Cadmium and lead in cocoa powder and chocolate products in the U.S market. *Food Additives & Contaminants: Part B* 11 (2): 3-27.
- Afoakwa, Emmanuel O. 2012. *Chocolate and Cocoa, Flavor and Quality*. US: John Wiley & Sons.
- Afoakwa, E.O., Kongor, J.E., Takrama, J., and Budu, A.S. 2013. Changes in nib acidification and biochemical composition during fermentation of pulp preconditioned cocoa (*Theobroma cacao*, L.) beans. *International Food Research Journal* 20 (4): 1843-1853.
- Afoakwa, E.O., Kongor, J.E., Takrama, J.F., and Budu, A.S. 2013. Changes in acidification, sugars and mineral composition of cocoa pulp during fermentation of pulp pre-conditioned cocoa (*Theobroma cacao*) beans. *International Food Research Journal* 20 (3): 1215-1222.
- Alamilla, P.G., Galvez, L.M.L, Fernandez, J.B., and Alamilla, R.G. 2017. Physicochemical Changes of Cocoa Beans during Roasting Process. *Journal of Food Quality* 2017: 1-11.
- Aprotosoae, A.C., Luca, S.V., and Miron, A. 2016. Flavor Chemistry of Cocoa and Cocoa Products – An Overview. *Comprehensive Reviews in Food Science and Food Safety* 15 (1): 73-88.
- Association of Official Analytical Chemist (AOAC). 2000. Official Methods of Analysis. The Association of Official Analytical Chemist, Gaithersburg.
- Association of Official Analytical Chemist (AOAC). 2005. Official Methods of Analysis. Association of Official Analytical Chemistry, Maryland.
- Atmaja, M.I.P, Haryadi, and Supriyanto. 2016. Peningkatan Kualitas Biji Kakao Non Fermentasi Melalui Perlakuan Pendahuluan Sebelum Inkubasi. *J. TIDP* 3 (1):11-20.
- Azmi, M.M.Z., Taip, F.S., Kamal, S.M.M., and Chin, N.L. 2019. Effects of temperature and time on the physical characteristics of moist cakes baked in air fryer. *Journal of Food Science and Technology* 56: 4616-4624.
- Badan Pusat Statistik (BPS). 2018. Statistik Kakao Indonesia 2018. Jakarta: Badan Pusat Statistik.
- Badan Standardisasi Nasional (BSN). 2013. Kakao Bubuk. *Standar Nasional Indonesia SNI 3747:2013*. Jakarta: Badan Standardisasi Nasional.

- Badan Standardisasi Nasional (BSN). 1995. Syarat Mutu Kue Brownies. *Standar Nasional Indonesia SNI 01-3840-1995*. Jakarta: Badan Standardisasi Nasional.
- Bai-Ngew, S., Therdthai, N., and Dhamvithee, P. 2011. Characterization of microwave vacuum-dried durian chips. *Journal of Food Engineering* 104 (1): 114-122.
- Barrio, R.G., Gomez, V.N., Jovellanos, E.C., Alonso, F.J.G., and Caston, M.J.P. 2020. Improvement of the flavanol profile and the antioxidant capacity of chocolate using a phenolic rich cocoa powder. *Foods Journal* 9 (2): 1-12.
- Caligiani, A., Cirlini, M., Palla, G., Ravaglia, R., and Arlorio, M. 2007. GC-MS detection of chiral markers in cocoa beans of different quality and geographic origin. *Chirality* 19 (4): 329-334.
- Coultrate, T.P. 2009. *Food: The Chemistry of Its Components*. UK: Royal Science Chemistry Publishing.
- Djaeni, M. and Prasetyaningrum, A. 2010. *Kelayakan Biji Durian Sebagai Bahan Pangan Alternatif: Aspek Nutrisi dan Tekno Ekonomi*. *Riptek* 4 (2): 37-45.
- Farah, D.M.H., Zaibunnisa, A.H., Misnawi, J., and Zainal, S. 2012. Effect of roasting process on the concentration of acrylamide and pyridines in roasted cocoa beans from different origins. *APCBEE Procedia* 4: 204-208.
- Hartuti, S., Bintoro, N., Karyadi, J.N.W., and Pranoto, Y. 2019. Characteristics of Dried Cocoa Beans (*Theobroma cacao* L.) Color Using Response Surface Methodology. *Journal of Agro Science* 7 (1): 82-92.
- Haryani, K., Hargono, Handayani, N.A., Ramadani, P., and Rezekia, D. 2017. *Substitusi Terigu dengan Pati Sorgum Terfermentasi pada Pembuatan Roti Tawar: Studi Suhu Pemanggangan*. *Jurnal Aplikasi Teknologi Pangan* 6 (2): 61-64.
- International Cocoa Organization (ICCO). 2018. ICCO Quarterly Bulletin of Cocoa Statistics. Abidjan: International Cocoa Organization.
- Ioannone, F., Di Mattia, C.D., De Gregorio, M., Sergi, M., Serafini, M., and Sacchetti, G. 2015. Flavanols, proanthocyanidins and antioxidant activity changes during cocoa (*Theobroma cacao* L.) roasting as affected by temperature and time of processing. *Food Chemistry* 174: 256-262.
- Janick, J. and Paull, R.E. 2008. *The Encyclopedia of Fruit & Nuts*. UK: Cambridge University Press.

- Jolic, S.M., Redovnikovic, I.R., Markovic, K., Sipusic, D.I., and Delonga, K. 2011. Changes of phenolic compounds and antioxidant capacity in cocoa beans processing. *International Journal of Food Science & Technology* 46 (9): 1793-1800.
- Kemp, S.E., Hollowood, T., and Hort, J. 2009. *Sensory Evaluation: A Practical Handbook*. UK: John Wiley & Sons.
- Lawless, H.T., and Heymann, H. 2010. *Sensory Evaluation of Food: Principles and Practices*. USA: Springer Science & Business Media.
- Lim, T.K. 2012. *Edible Medicinal and Non-Medicinal Plants: Volume 1, Fruits*. USA: Springer Science & Business Media.
- Lynch, K.M., Zannini, E., Wilkinson, S., Daenen, L., and Arendt, E.K. 2019. Physiology of Acetic Acid Bacteria and Their Role in Vinegar and Fermented Beverages. *Comprehensive Reviews in Food Science and Food Safety* 18 (3): 1-39.
- Magi, E., Bono, L. and Di Carro, M. 2012. Characterization of cocoa liquors by GC-MS and LC-MS/MS: Focus on alkylpyrazines and flavanols. *Journal of Mass Spectrometry* 47: 1191 – 1197.
- Mansur, D., Tago, T., Masuda, T., and Abimanyu, H. 2014. Conversion of cacao pod husks by pyrolysis and catalytic reaction to produce useful chemicals. *Biomass and Bioenergy* 66: 275-285.
- Meilgaard, M.C., Civille, G.V., and Carr, B.T. 2007. *Sensory Evaluation Techniques*. Boca Raton: CRC Press.
- Merkus, H.G. 2014. *Particulate Products: Tailoring Properties for Optimal Performance*. London: Springer.
- Mohamad, R.A., Taip, F.S., Kamal, S.M.M., and Bejo, S.K. 2015. Color and volume development of cake baking and its influence on cake qualities. *Journal of Applied Agricultural Science* 10: 63–68.
- Mortimer, A., Barbosa-Canovas, G., Lineback, D., Spiess, W., Buckle, K., and Colonna, P. 2009. *Global Issues in Food Science and Technology*. USA: Academic Press.
- Nielsen, S.S. 2010. *Food Analysis, fourth edition*. New York: Springer Science and Business Media.
- Oracz, J., and Nebesny, E. 2014. Influence of roasting conditions on the biogenic amine content in cocoa beans of different *Theobroma cacao* cultivars. *Food Research International* 55: 1-10.

- Poisson, L., Blank, I., Dunkel, A., and Hofmann, T. 2017. The Chemistry of Roasting-Decoding Flavour Formation. *The Craft and Science of Coffee*: 273-309.
- Provost, J.J., Colabroy, K.L., Kelly, B.S., and Wallert, M.A. 2016. *The Science of Cooking: Understanding the Biology and Chemistry Behind Food and Cooking*. USA: John Wiley & Sons.
- Ruan, D., Wang, H., Cheng, F. 2018. *The Maillard Reaction in Food Chemistry: Current Technology and Applications*. Switzerland: Springer.
- Rocha, I.S., Santana, L.R.R., Soares, S.E., and Bispo, E.S. 2017. Effect of the roasting temperature and time of cocoa beans on the sensory characteristics and acceptability of chocolate. *Food Science and Technology* 37 (4): 522-530.
- Rodrigues, S., de Oliveira, E., and de Brito, E.S. 2018. *Exotic Fruits Reference Guide*. Brazil: Academic Press.
- Rogers, L. 2017. *Discrimination Testing in Sensory Science: A Practical Handbook*. UK: Woodhead Publishing.
- Saltini, R., Akkerman, R., and Frosch, S. 2013. Optimizing chocolate production through traceability: a review of the influence of farming practices on cocoa bean quality. *Food Control* 29 (1): 167-187.
- Schroth, G., Laderach, P., Martinez-Valle, A.I., Bunn, C., and Jassogne, L. 2016. Vulnerability to climate change of cocoa in West Africa: Patterns, opportunities, and limits to adaptation. *Science of The Total Environment* 556: 231-241.
- Selvakumaran, L., Shukri, R., Ramli, N.S., Dek, M.S.P., and Ibadullah, W.Z.W. 2019. Orange sweet potato (*Ipomoea batatas*) puree improved physicochemical properties and sensory acceptance of brownies. *Journal of the Saudi Society of Agricultural Science* 18 (3): 332-336.
- Shevell, S.K. 2003. *The Science of Color* 2<sup>nd</sup> ed. UK: Elsevier.
- Srianta I., Hendrawan, B., Kusumawati, N. and Blanc, P.J. 2012. Study on durian seed as a new substrate for angkak production. *International Food Research Journal* 19 (3): 941-945.
- Srianta, I., Novita, Y., and Kusumawati, N. 2012. Production of monascus pigments on durian seed: effect of supplementation of carbon source. *Journal of Pure and Applied Microbiology* 6 (1): 59-63.

- Sudiby, A. 2017. Effect of processing techniques on flavour and characteristics of cocoa processed and chocolate products. *Jurnal Industri Hasil Perkebunan* 12 (1): 1-13.
- Talbot, G. 2012. *Chocolate and Cocoa Butter – Structure and Composition*. UK: Elsevier.
- Tanner, E.V.J., Gateau-Rey, L., Rapidel, B., Marelli, J.P., and Royaert, S. 2018. Climate change could threaten cocoa production: 2015-2016 El Nino-related drought on cocoa agroforests in Bahia, Brazil” *PloS ONE* 13 (7): 1-17.
- United States Department of Agriculture (USDA). 2002. *Nutritive Value of Foods*. USA: United States Department of Agriculture.
- Uruakpa, F.O. and Fleischer, A.M. 2016. Sensory and nutritional attributes of black bean brownies. *American Journal of Food Science and Nutrition* 3 (3): 27-36.
- Wijayahena, M.K. and Jayaweera, C.D. 2020. Development of chocolate aroma from underutilized durian seeds. *International Journal of Scientific & Technology Research* 9 (3): 6871-6875.
- Yuliana, N., and Dizon, E.I. 2011. Phenotypic Identification of Lactic Acid Bacteria Isolated from Tempoyak (Fermented Durian) Made in the Philippines. *International Journal of Biology* 3 (2): 145-152.